

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

**BASIC IMAGERY
INTERPRETATION
REPORT**

**PETROKREPOST EXPLOSIVES AND
SOLID MOTOR PLANT MOROZOV**

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

USSR

JUNE 1970

25X1A

Declass Review by NIMA / DoD

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MAP REFERENCE

ACIC. US Air Target Chart 200, Sheet 0153-5, scale 1:200,000

[REDACTED]	NEGATION DATE (if required)	NA
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UNIDENTIFIED PRODUCTION AREA

The area includes several probable propellant processing buildings and a probable laboratory building. This is the oldest area in the plant (most of it was present in [REDACTED] and buildings have been added to it as late as [REDACTED] (Figure 3 and Table 1).

NEW PROBABLE NITROGLYCERIN SECTION AND OLD PROBABLE NITROGLYCERIN SECTION

Parts of the old probable nitroglycerin section still exist, but it appears that the probable gutter system which connected it to the mixing building and the extrusion building within the probable double base production area has been partially dismantled. A new gutter system may be constructed which will connect the probable double base production area to the new probable nitroglycerin section (Figures 3 and 4 and Table 1). The new probable nitroglycerin section is nearing completion, and it appears that it will have only one line with one nitrator/seperator unit.

(Continued p. 7)

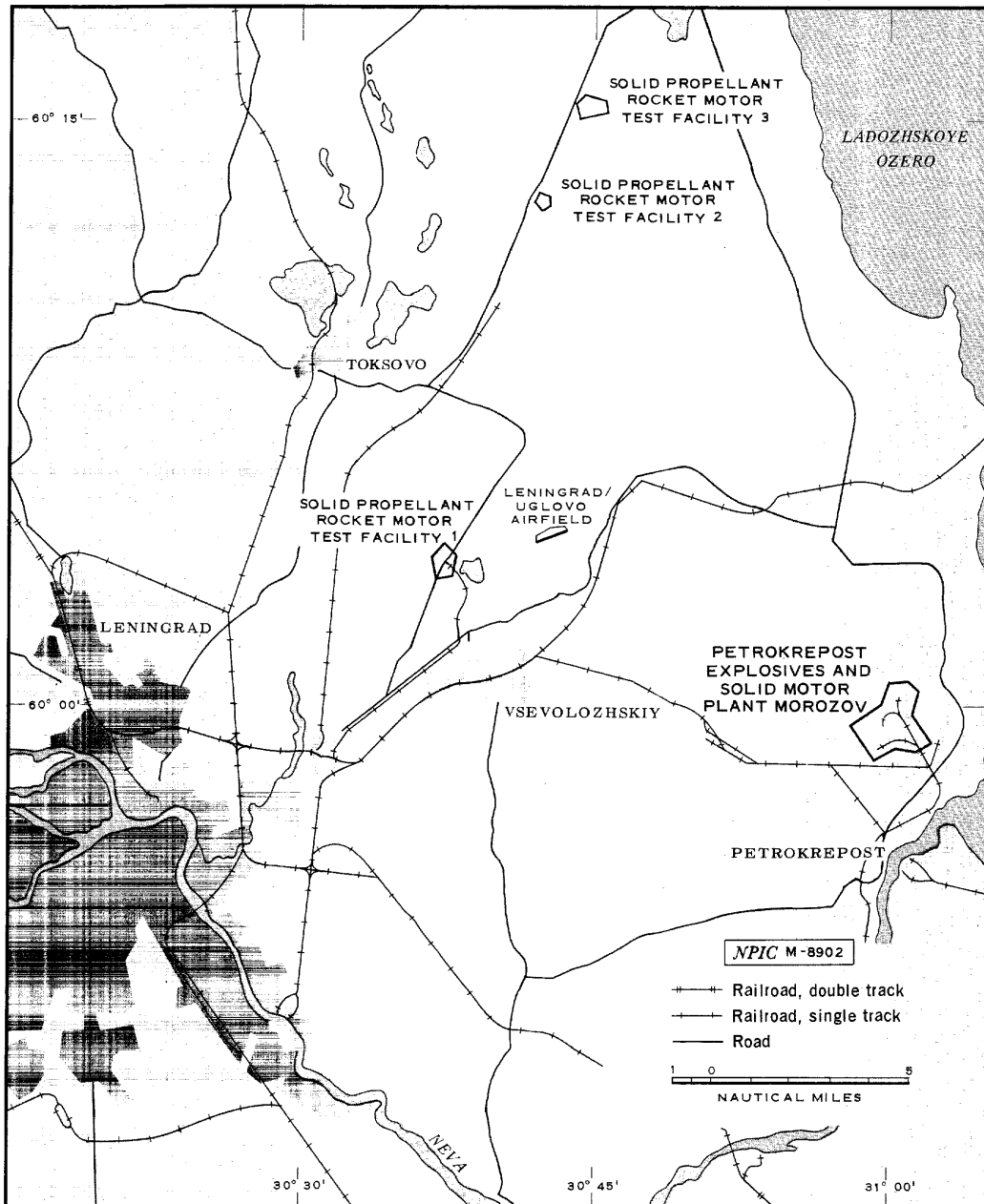


FIGURE 1. PETROKREPOST EXPLOSIVES AND SOLID MOTOR PLANT MOROZOV, USSR

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FIGURE 2. PEROXIDEPREP EXPLOSIVES AND SOLID MOTOR PLANT MOROZOV

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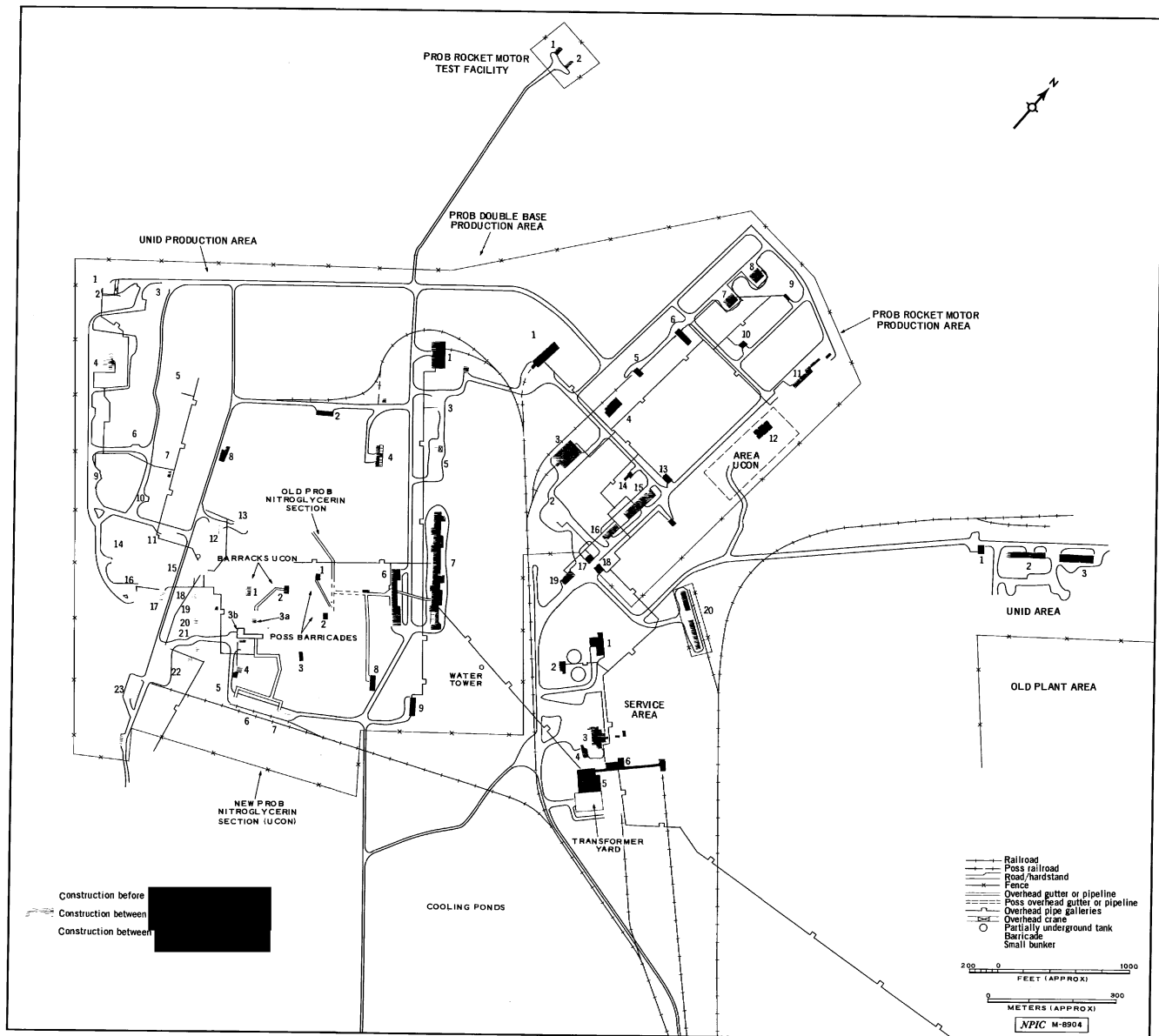


FIGURE 3. LAYOUT OF PETROKREPOST EXPLOSIVES AND SOLID MOTOR PLANT MOROZOV

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Table 1. NitroReport Explosives and Solid Motor Plant Moscow
(Items are keyed to Figure 3)

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Item	Probable Function or Description	Remarks	Item	Probable Function or Description	Remarks	
Unidentified Production Area			Probable Rocket Motor Test Facility			
1	Propellant processing bldg	Barriaded. An overhead crane and a small bunker serve the bldg.	1	Prob test cell	First observed under [REDACTED]	
2	Propellant processing bldg	Barriaded. Appears to be connected to bldg 1 via conduit.	2	Proc control bldg	First observed under [REDACTED]	
3	Unit bldg	Barriaded. A remote control section is located on the SW side of the barriade. Barriaded. Soline front of bldg is apron served.	Probable Rocket Motor Production Area			
4	Propellant processing bldg		1	Proc magazine bldg	Barriaded. Possibly well served.	
5	Propellant processing bldg		2	Insert operations bldg	First observed under [REDACTED] bldg has high-bay section.	
6	Unit bldg		3	Proc case preparation bldg	Barriaded. Well served.	
7	Storage bldg	Barriaded. Bldgs 11, 12, and 13 appear to be inter-related. Bldgs 11, 12, and 13 appear to be inter-related. Bldgs 11, 12, and 13 appear to be inter-related.	4	Propellant process bldg	Barriaded. Well served.	
8	Administration bldg		5	Propellant process bldg	Barriaded. Well served.	
9	Processing/magazine bldg		6	Propellant process bldg	Barriaded.	
10	Magazine bldg		7	Propellant process bldg	Barriaded.	
11	Unit bldg	Appears to primarily serve the unit production area. An adjacent bunker is connected via conduit. Bldgs 18-21 appear to be interrelated and directly associated with the steam plant (Item 17). Bldgs 18-21 appear to be interrelated and directly associated with the steam plant (Item 17). Bldgs 18-21 appear to be interrelated and directly associated with the steam plant (Item 17). Bldgs 18-21 appear to be interrelated and directly associated with the steam plant (Item 17).	8	Propellant process bldg	Barriaded.	
12	Unit bldg		9	Unit bldg	Barriaded.	
13	Unit bldg		10	Unit bldg	Barriaded.	
14	Magazine bldg		11	Propellant process/maintenance test bldg	Barriaded. A remote control section is located on the north side of the barriade. Under construction.	
15	Overhead	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	12	Unit bldg union	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	
16	Proc laboratory bldg		13	Proc fire station		
17	Unit bldg		14	Fire station		
18	Unit bldg		15	Admin/engineering bldg		
19	Unit bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	16	Unit bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	
20	Unit bldg		17	Admin and security bldg		
21	Unit bldg		18	Admin and security bldg		
22	Storage bldg		19	Admin bldg		
23	Admin bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	20	Shipping and receiving bldg		
New Probable Nitroglycerin Section (cont)			Service Area			
1	Proc acid recovery bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	1	Unit bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	
2	Proc rest house		2	Proc purchase		
3	Nitrotrans/sparator bldg		3	Water plant		
4	Route control section		4	Storage bldg		
5	Unit bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	5	Steam and powerplant	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	
6	Unit bldg		6	Steam and powerplant		
7	Acid/glycerin stor bldg		Unidentified Area			
8	Acid/glycerin stor bldg		1	Admin bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	
9	Acid/glycerin stor bldg		2	Unit bldg		
Old Probable Nitroglycerin Section			3	Unit bldg		
1	Unit bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	Unidentified Area			
2	Unit bldg		Unidentified Area			
3	Unit bldg		Unidentified Area			
Unidentified Production Area			Unidentified Area			
1	Shop/shipping and receiving bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	Unidentified Area			
2	Unit bldg		Unidentified Area			
3	Proc finishing bldg		Unidentified Area			
4	Proc finishing bldg		Unidentified Area			
5	Proc finishing bldg	Barriade under construction. Barriade under construction. Barriade under construction. Barriade under construction.	Unidentified Area			
6	Ingredients mixing bldg		Unidentified Area			
7	Rolling and extrusion bldg		Unidentified Area			
8	Storage bldg		Unidentified Area			
9	Unit bldg		Unidentified Area			

(The old probable nitroglycerin section is probably abandoned and therefore is not included in this doc.)

(The old probable nitroglycerin section is probably abandoned and therefore is not included in this total.)

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Item	Probable Function or Description	Remarks	Item	Probable Function or Description	Dimensional Data*				First Observed**	Remarks
					Metric		Imperial			
<div>Unidentified Production Area</div> <div><div><div>1</div><div>Propellant processing bldg</div></div><div><div>2</div><div>Propellant processing bldg</div></div><div><div>3</div><div>Unit bldg</div></div><div><div>4</div><div>Propellant processing bldg</div></div><div><div>5</div><div>Propellant processing bldg</div></div><div><div>6</div><div>Unit bldg</div></div><div><div>7</div><div>Storage bldg</div></div><div><div>8</div><div>Administration bldg</div></div><div><div>9</div><div>Processing/magazine bldg</div></div><div><div>10</div><div>Magazine bldg</div></div><div><div>11</div><div>Unit bldg</div></div><div><div>12</div><div>Unit bldg</div></div><div><div>13</div><div>Unit bldg</div></div><div><div>14</div><div>Magazine bldg</div></div><div><div>15</div><div>Storage bldg</div></div><div><div>16</div><div>Pass laboratory bldg</div></div><div><div>17</div><div>Unit bldg</div></div><div><div>18</div><div>Unit bldg</div></div><div><div>19</div><div>Unit bldg</div></div><div><div>20</div><div>Unit bldg</div></div><div><div>21</div><div>Unit bldg</div></div><div><div>22</div><div>Unit bldg</div></div><div><div>23</div><div>Storage bldg</div></div><div><div>24</div><div>Admin bldg</div></div></div> <div><div>New Probable Nitroglycerin Section (cont)</div><div><div><div>1</div><div>Pass add recovery bldg</div></div><div><div>2</div><div>Pass react house</div></div><div><div>3a</div><div>Nitrator/separator bldg</div></div><div><div>b</div><div>Remote control section</div></div><div><div>4</div><div>Unit bldg</div></div><div><div>5</div><div>Unit bldg</div></div><div><div>6</div><div>Acid/glycerin ator bldg</div></div><div><div>7</div><div>Acid glycerin ator bldg</div></div></div></div> <div><div>Old Probable Nitroglycerin Section</div><div><div><div>1</div><div>Unit bldg</div></div><div><div>2</div><div>Unit bldg</div></div><div><div>3</div><div>Unit bldg</div></div></div></div> <div><div>Unidentified Production Area</div><div><div><div>1</div><div>Shop/shipping and receiving bldg</div></div><div><div>2</div><div>Unit bldg</div></div><div><div>3</div><div>Pass finishing bldg</div></div><div><div>4</div><div>Pass loading bldg</div></div><div><div>5</div><div>Pass finishing bldg</div></div><div><div>6</div><div>Ingredients mixing bldg</div></div><div><div>7</div><div>Balling and extrusion bldg</div></div><div><div>8</div><div>Storage bldg</div></div><div><div>9</div><div>Unit bldg</div></div></div></div> <div><div>Probable Rocket Motor Test Facility</div><div><div><div>1</div><div>Prob test cell</div></div><div><div>2</div><div>Prop control bldg</div></div></div><div><div>Probable Rocket Motor Production Area</div><div><div><div>1</div><div>Pass magazine bldg</div></div><div><div>2</div><div>Insert operations bldg</div></div><div><div>3</div><div>Pass case preparation bldg</div></div><div><div>4</div><div>Propellant process bldg</div></div><div><div>5</div><div>Propellant process bldg</div></div><div><div>6</div><div>Propellant process bldg</div></div><div><div>7</div><div>Propellant process bldg</div></div><div><div>8</div><div>Propellant process bldg</div></div><div><div>9</div><div>Unit bldg</div></div><div><div>10</div><div>Unit bldg</div></div><div><div>11</div><div>Propellant process/maintenance test bldg</div></div><div><div>12</div><div>Unit bldg room</div></div><div><div>13</div><div>Pass fire station</div></div><div><div>14</div><div>Fire station</div></div><div><div>15</div><div>Admin/engineering bldg</div></div><div><div>16</div><div>Unit bldg</div></div><div><div>17</div><div>Admin and security bldg</div></div><div><div>18</div><div>Admin and security bldg</div></div><div><div>19</div><div>Admin bldg</div></div><div><div>20</div><div>Shipping and receiving bldg</div></div></div><div><div>Service Area</div><div><div><div>1</div><div>Unit bldg</div></div><div><div>2</div><div>Pass pumphouse</div></div><div><div>3</div><div>Batch plant</div></div><div><div>4</div><div>Storage bldg</div></div><div><div>5</div><div>Steam and powerplant</div></div><div><div>6</div><div>Steam and powerplant</div></div></div><div><div>Unidentified Arm</div><div><div><div>1</div><div>Admin bldg</div></div><div><div>2</div><div>Unit bldg</div></div><div><div>3</div><div>Unit bldg</div></div></div></div></div><div><div>(The old probable nitroglycerin section is probably abandoned and therefore is not included in this table.)</div></div></div></div>										

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PROBABLE DOUBLE BASE PRODUCTION AREA

This area probably has all the necessary structures to produce small extruded rocket grains. The nitrocellulose (easily transportable) could be brought in from another plant and mixed with the nitroglycerin produced in the adjacent probable nitroglycerin section. The mixture could then be extruded in the rolling and extrusion building (Figure 3, item 7) and finished and possibly loaded in motor cases in some of the additional buildings in the area (see Figure 3 and Table 1 for identifications and locations). Double base casting powder is probably not produced in this area; the drying facilities which are necessary cannot be identified.

PROBABLE ROCKET MOTOR TEST FACILITY

The facility consists of a small probable test cell served by a probable blast deflector and a probable control building. This small facility would probably be compatible with the size of motors produced by extruding whole grains.

PROBABLE ROCKET MOTOR PRODUCTION AREA

It is possible that small rocket motor grains coming from the probable double base production area could be undergoing processing in this area, but the area seems too large to be entirely devoted to this. It seems more plausible that this area is engaged in the production of rocket motors from casting powder. The possibility exists that casting powder may be brought in from another plant; casting powder can be and is (at least in the United States) transported without dangerous complications. With the assumption that casting powder is being brought in, building 1 (Figures 3 and 5) could be a storage magazine for the powder, building 3 could be a case preparation building, and buildings 4 through 11 could be engaged in various propellant processes including casting, curing, finishing, and inspection. Table 1 presents a generalized and tentative identification of structures in this area.

SERVICE AREA

The area contains two steam and power plants, a possible pumphouse, and a batch plant.

UNIDENTIFIED AREA

This area is possibly abandoned. Building 2 (Figure 3) was abandoned during construction. Earth mounding, which was once thought to be a possible test area, has either been removed or has eroded.

CHRONOLOGY

25X1D When first covered in [REDACTED] the plant consisted of most of the unidentified production area. The old plant area was present at that time. Between [REDACTED] (the first usable KEYHOLE coverage), the old probable nitroglycerin area, the mixing building, and the rolling and extrusion building within the probable double base production area and virtually the entire probable rocket motor production area were constructed. A few buildings were also added to the unidentified production area. The most recent construction, from [REDACTED] to the latest coverage [REDACTED] includes the entire new probable nitroglycerin section, several buildings in the probable double base production area, several buildings in the unidentified production area, and a major building in the probable rocket motor production area. In the unidentified area, one building was added during each of the periods. Facilities are observed under construction on the latest photography in the new probable nitroglycerin section and the probable rocket motor production area. Refer to Figure 3 and Table 1 for a detailed and graphic presentation of the chronology.

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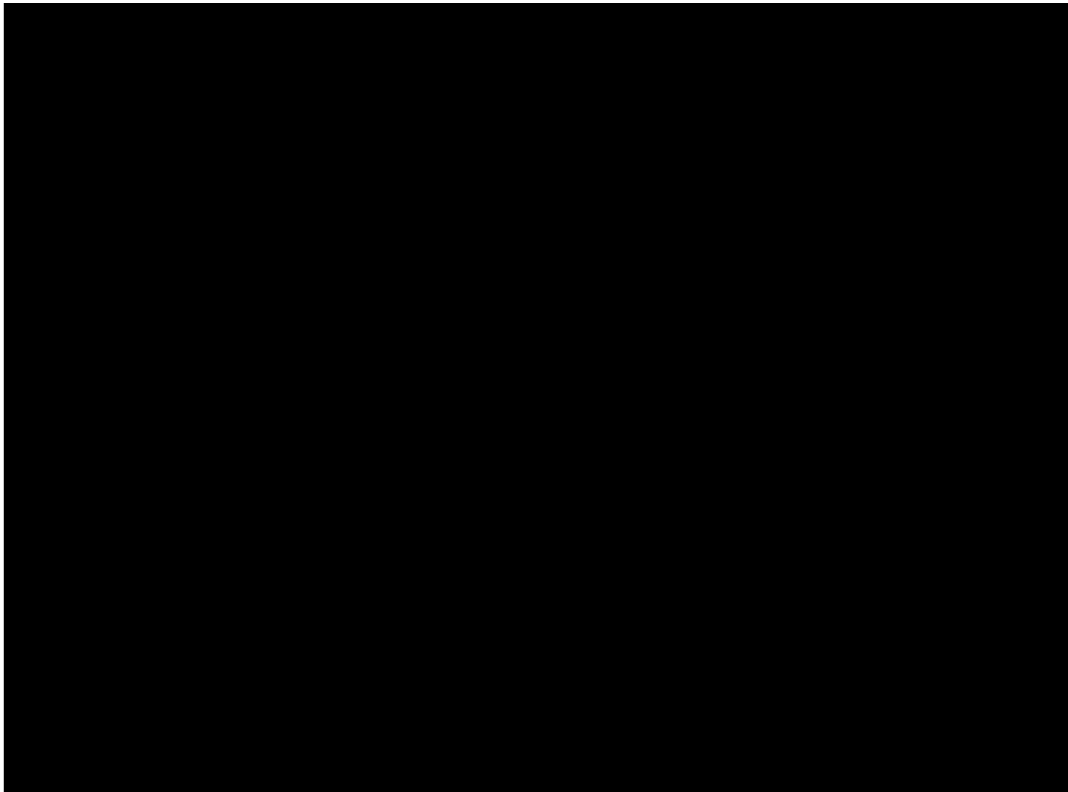
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REFERENCES

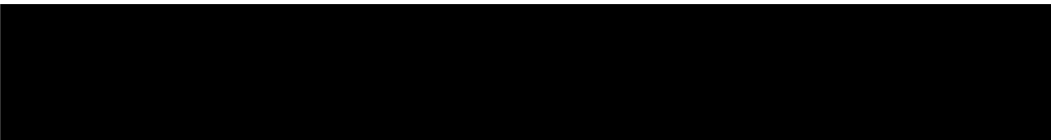


MAPS OR CHARTS

US Air Target Chart 200, Sheet 0153-5, scale 1:200,000

REQUIREMENT

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